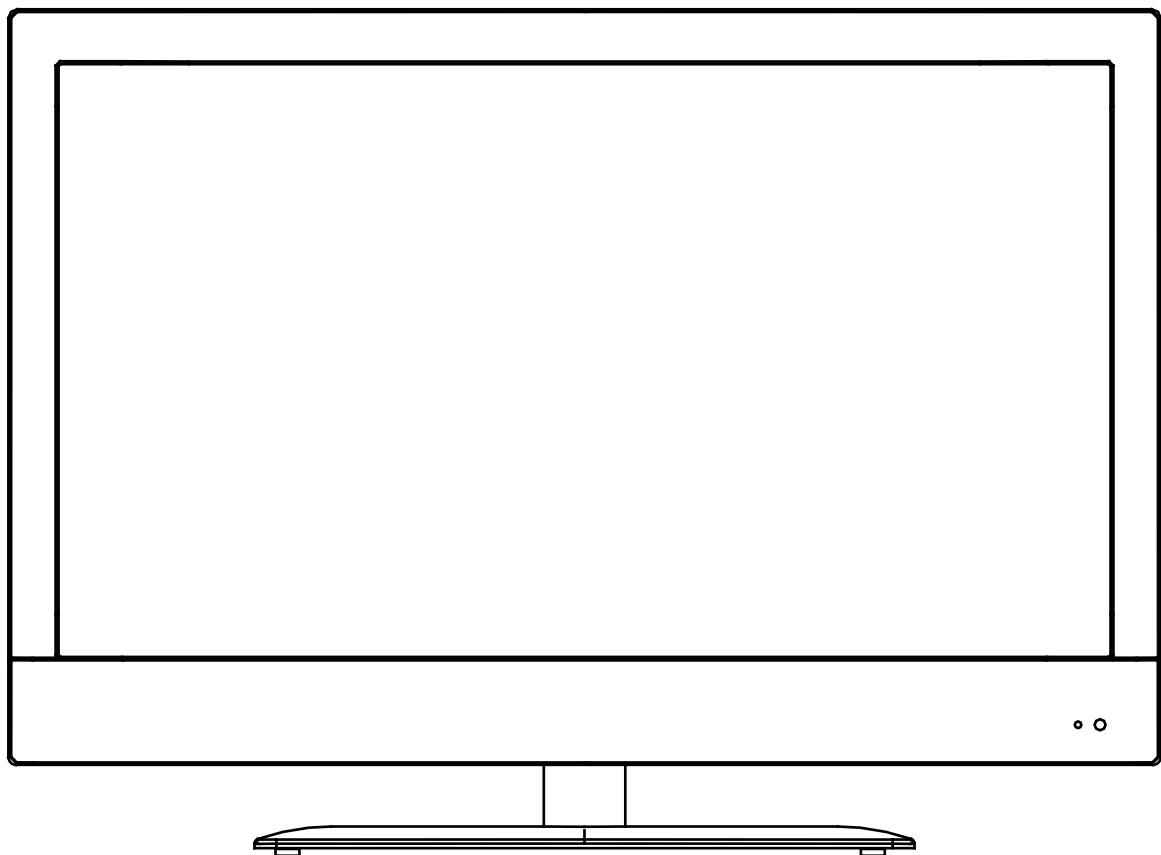


DENVER

**22" fhd led tv with atv and mpeg-2 dvb-t +
dvb-s + c.i & usb input + pvr function**

Model NO.: LED-2256DVBTS



Instruction Manual

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SAFETY INFORMATION

IMPORTANT SAFETY INSTRUCTIONS - READ CAREFULLY BEFORE USE.

Take note of the following safety information which appears on the back of the TV.



CAUTION TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE ANY COVER SCREWS, NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates that there are important operating maintenance instructions in the literature accompanying this unit.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

Keep these instructions

- Do not use this TV near water.
 - Clean only with a slightly damp cloth.
 - Do not block any ventilation openings.
 - Install in accordance with the supplied Quick Start Guide and this User Guide.
 - Protect the power chord from being walked on or pinched, particularly at plugs, and the point where it exits from the TV.
 - Do not allow the power chord to overhang the edge of a table.
 - Unplug this TV during lightening storms or when unused for long periods of time.
-



WARNING! TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS TV TO RAIN OR MOISTURE. THE TV MUST NOT BE EXPOSED TO DRIPPING AND SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS SHOULD BE PLACED ON THE TV.

NOTE: No naked flames such as candles should be placed on the TV.

IMPORTANT SAFETY INFORMATION (Continued)

This unit has been produced according to all current safety regulations. The following safety tips should safeguard users against careless use and the dangers connected with such use.

- Although this appliance has been carefully manufactured and rigorously checked prior leaving the factory, as with all electrical appliances it is possible for problems to develop. If you notice smoke, an excessive build up of heat or any other unexpected phenomena, you should disconnect the plug from the mains power socket immediately.
- Ensure that the unit is sufficiently ventilated! Never place next to or underneath curtains!
- The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- This set should only be connected to a mains power supply which matches that stated on the label on the rear of the TV – do not attempt to connect it to any other type of supply.
- The socket – outlet must be installed near the equipment and easily accessible.
- To prevent overload, don't share the same mains supply socket with too many other items of equipment.
- Apparatus with Class 1 construction shall be connected to a mains socket outlet with a protective earthing connection.
- Keep away from rodents. Rodents enjoy biting into electric flexes.
- Always hold the plug when pulling out the plug from the mains supply socket. Do not pull on the flex, the flex can become overloaded and cause a short circuit.
- Set up the unit so that no one is able to trip over the flex.
- Do not place heavy items on the flex, which may damage it.
- Take note that the flex cannot be reached and pulled by young children, avoiding injury.
- Do not set up the unit near to heat sources. The casing and the flex could be damaged by the impact of heat.
- The screen is made of plastic and can break if damage is done to it. Be careful when collecting sharp edged plastic splinters to avoid injury.
- Avoid placing the unit on any surfaces that may be subject to vibrations or shocks.
- To protect the unit during a thunderstorm unplug the AC power cable and disconnect the aerial. Caution: Do not touch the aerial (RF) connector.
- When you leave your home for long periods of time, unplug the AC power cable for safety reasons.
- The unit becomes warm when in operation. Do not place any covers or blankets on the unit in order to prevent overheating. The ventilation holes are not to be blocked. Do not set up near radiators. Do not place in direct sunshine. When placing on a shelf leave 5 cm (2") free space around the whole unit.
- Do not allow water or moisture to enter the TV. Do NOT use in wet or moist areas such as Bathrooms, steamy kitchens or near swimming pools.
- Do not use this unit when moisture condensation may occur
- Any repairs must be carried out by qualified personnel only.
- Do not open this unit. A non – expert attempting to repair the unit could be dangerous and potentially cause a fire hazard.

IMPORTANT SAFETY INFORMATION (continued)

- Liquids spilt into the unit can cause serious damage. Switch the set OFF and disconnect the mains power supply, then consult a qualified service person before attempting to use the unit again.
- Do NOT remove the safety covers. There are no useable or serviceable parts inside. You may invalidate the warranty. Qualified personnel must only service this apparatus.
- Do NOT tap or shake the screen, you may damage the internal circuits. Take good care of the remote control, do not drop.
- Never place hot objects or open flame sources on or close to the TV.
- High temperatures can melt plastic and lead to fires.
- To clean the TV use a soft dry cloth. Do NOT use solvents or petrol based fluids. For stubborn stains, you may use a damp cloth with dilute detergent.

Headphone Warning

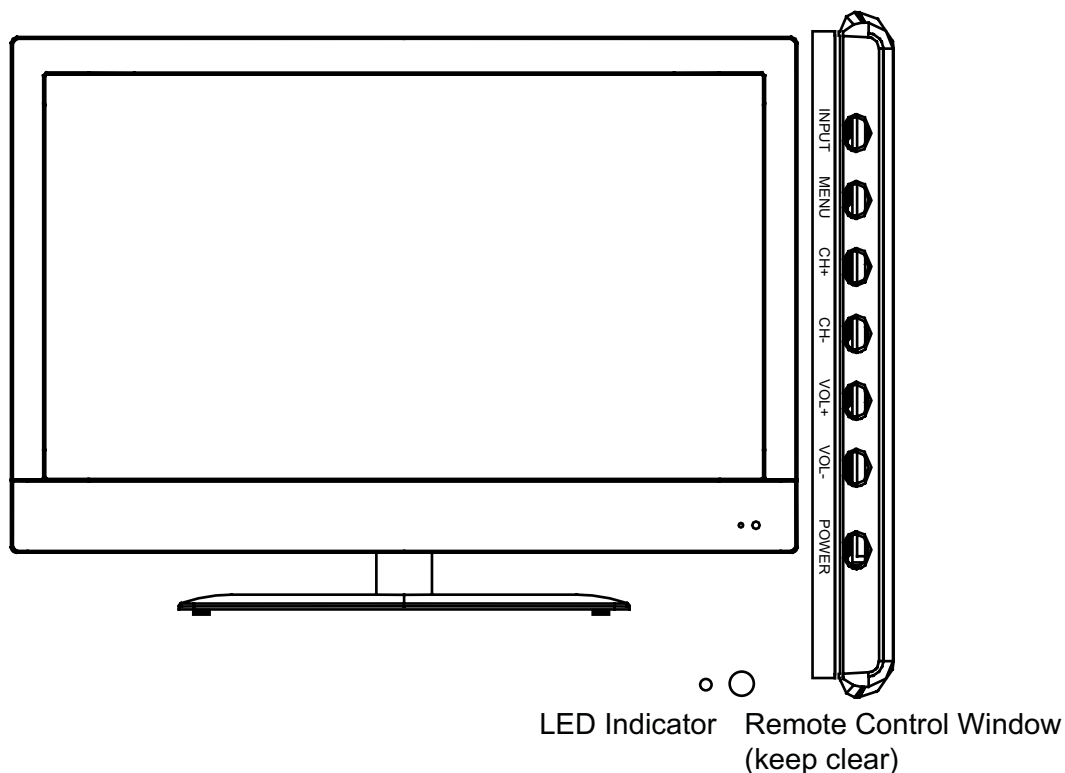
Loud music can damage your hearing irreversibly, therefore do not set the volume to a high level when listening through headphones, particularly for lengthy listening periods.

Where to install

Locate the television away from direct sunlight and strong lights, soft indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen. Place the TV on a sturdy platform of which the surface should be flat and steady. This will prevent it from falling over.

Make sure the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen, and so that small objects cannot be inserted into the ventilation slots or openings in the cabinet.

Unit



The functions of the TV buttons are described below.

MENU: Press to display the OSD menu, Press again to exit the menu.

CH-/CH+: Press to scan through channels.

They are also can be used to move down/up in the OSD menu screen.

VOL-/VOL+: Press to adjust the volume.

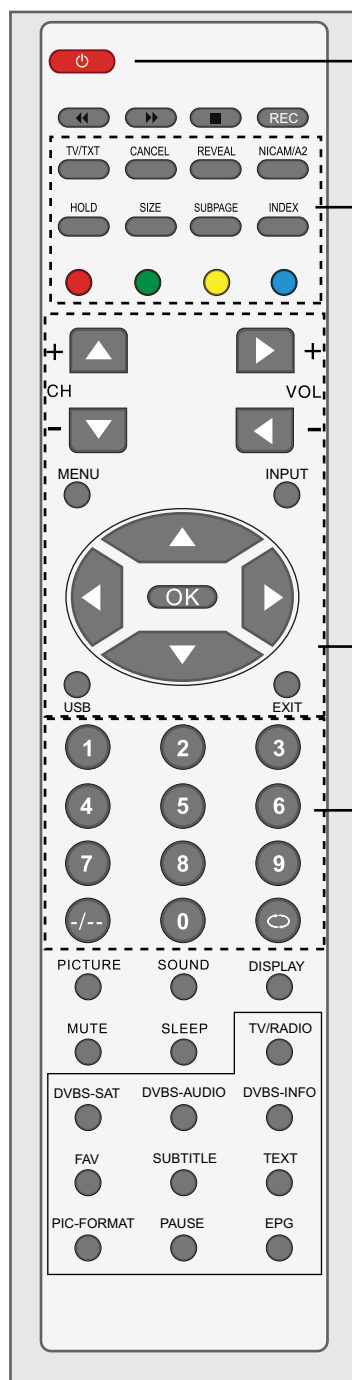
They are also can be used to move left/right in the OSD menu screen.

VOL+ button can be used to skip forward to next menu.

INPUT: Press to select the source.

Power: Turn on/off the TV set.

Remote control



POWER: Turn the TV on/standby.

Buttons for TELETEXT(In ATV mode)

TV/TXT: Teletext on/off

CANCEL: Turn off the Teletext display

REVEAL: Reveal any hidden text, for example-quiz answer

NICAM/A2

HOLD: Hold or carry on the current subpage

SIZE: Press to see top half of page double size, Press again to see the bottom half of page double size, Press again for normal size

SUBPAGE: press to subpage, again to cancel.

INDEX: go to index.

Colour buttons: short cuts-follow the coloured links in the text.

(In DTV mode, press red key to switch between TV and radio. Green key, yellow key and blue key are invalid.)

CH+/- : Scan through channels.

VOL+/- : Adjust the volume.

MENU : System setup menu.

INPUT: Press to display the input source menu.

Cursor left/right up/down : Cursor buttons used in menus.

OK:CONFIRM BUTTON for menu.

USB: The short cuts to the multimedia in DVBS mode.

EXIT : Exit the OSD menu.

0-9,-/--

Choose channel directly.



Returns to the previous channel.

Remote control (continued)



◀◀ : Fast reverse.

▶▶ : Fast forward.

■ : Stop.

REC: Press to start record the program in DVBS mode.

PICTURE: Select the picture mode.

SOUND: Select the sound mode.

DISPLAY: Display current mode information.

MUTE: Mutes the Audio.

SLEEP: Standby Timer.

TV/RADIO: Disc menu change between TV and Radio.

DVBS-SAT: Display the satellite list.

DVBS-AUDIO: Shows the list of available languages for the channel you are watching.

DVBS-INFO: Shows information of the current channel.

FAV: Display the favorite program list.

SUBTITLE: To switch the dialogue at the bottom of the screen.

TEXT: To view the teletext broadcasting program.

PIC FORMAT: Press to change the display mode of the screen: 4:3, 16:9.etc

PAUSE: Pause the current screen in DVB-S.

EPG: To show the Electronic Program Guide during no-menu state only.

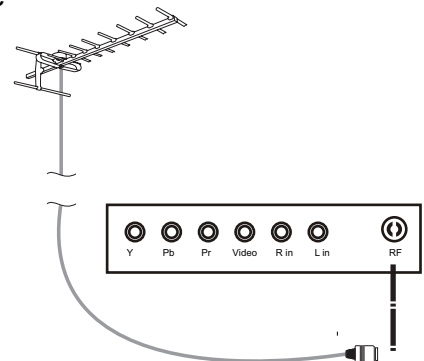
Aerial connection

WARNING! ENSURE THE TV AND ALL ANCILLARY EQUIPMENT IS UNPLUGGED FROM THE MAINS BEFORE MAKING ANY CONNECTIONS!

Connecting the TV Antenna

Connect the TV antenna to the aerial socket with a 75 ohm co-axial plug. For best results use a high gain TV aerial, preferably roof or loft mounted.

- To improve picture quality in a poor signal area, purchase and install a signal amplifier.
- If the antenna needs to be split for two TVs, use a 2-Way Signal Splitter (not supplied).



Connecting external devices

This instruction manual shows the simplest and most effective way of connecting your TV to ancillary equipment. Alternate methods are listed below.

HDMI Lead

You can connect this TV to a compatible device using a HDMI lead. This method will give the best picture.

Connect the cable from the HDMI equipment to the TV HDMI socket.

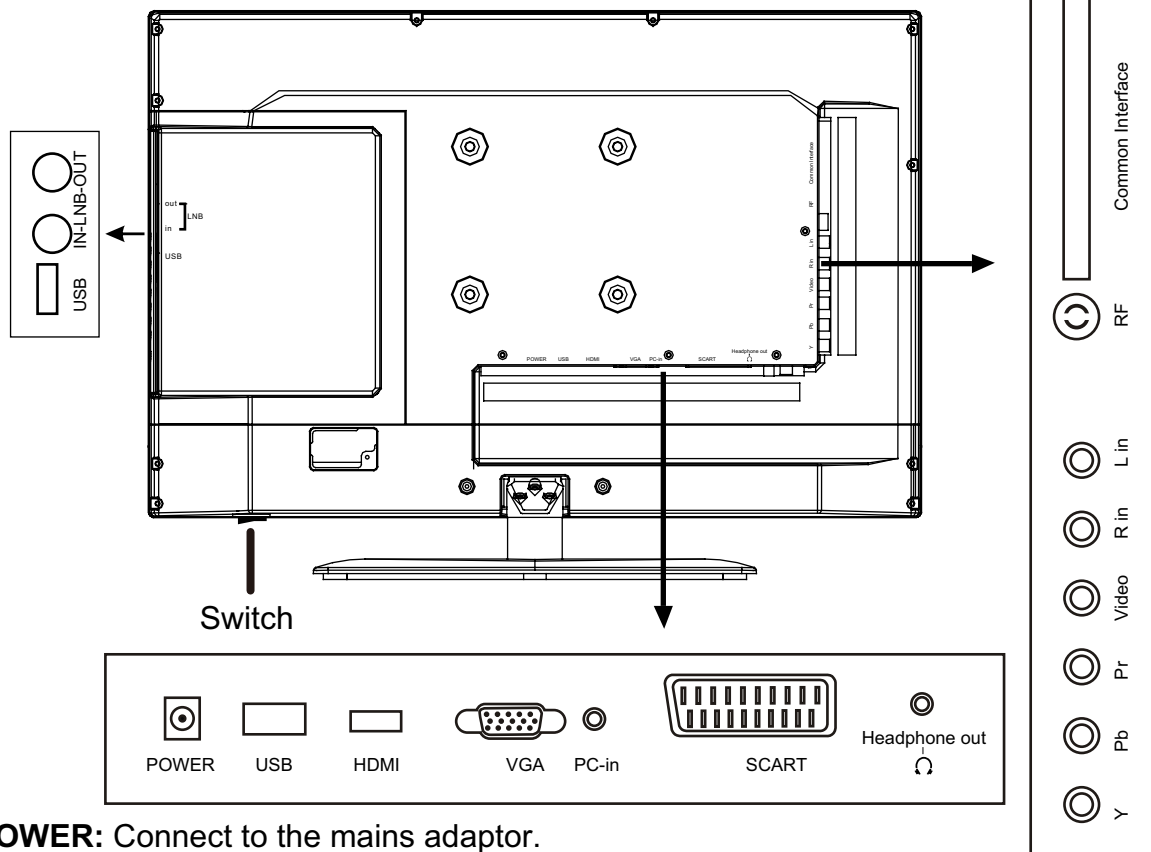
SCART Lead

You can connect this TV to a compatible device using a SCART lead. The connection uses component video signals, i.e. the red, green and blue (RGB) content of the video are sent on separate signals.

VGA Cable

You can use your TV as a monitor for your personal computer by using a VGA cable. Sound from your personal computer may also be played through the TV.

Connecting external devices (continued)



POWER: Connect to the mains adaptor.

SWITCH: Power ON/OFF.

USB: For soft Multimedia and Record.

HDMI: Connect it to the HDMI of DVD or other equipment.

VGA: For PC display. Connect it to the D-Sub 15 pins analog output connector of the PC.

PC-IN: Connect it to the audio output terminal of PC.

SCART: Connect them to the SCART video output terminal of DVD.(used in component source)

Headphone: Connect it to your headphone or other audio equipment.

YPbPr: Connect them to the YPbPr video output terminal of DVD.(used in component source)

VIDEO: Connect it to video output terminal of DVD.

R/L in: Connect them to the audio output terminal of DVD.(shared with YPbPr)

RF: Connect antenna or cable 75 Ohm coaxial to receive TV signal.

Common Interface: CI slot.

USB(DVB-S): Connect to USB device for multimedia and PVR

LNB IN: SAT IN

LNB OUT: LOOP OUT

Caution:

Before connecting external devices:

- Makes sure to disconnect the appliances from the power supply in order to avoid any potential damage from occurring.
- Make sure to establish the required connection.
- Make sure that the connectors are properly and correctly attached before connecting the appliances to the power supply.

Connecting external devices (continued)

PC connection

As PCs are sometimes still supplied with a 'conventional' CRT monitor, you may need to adjust the display settings of your PC's graphics card, otherwise the pictures may not appear correctly. Switch on your PC (still with your original monitor connected) now select the screen resolution, and select 60Hz refresh rate. Switch off your PC, then connect it to your TV while both appliances are still switched off.

VGA, HDMI PC Connection

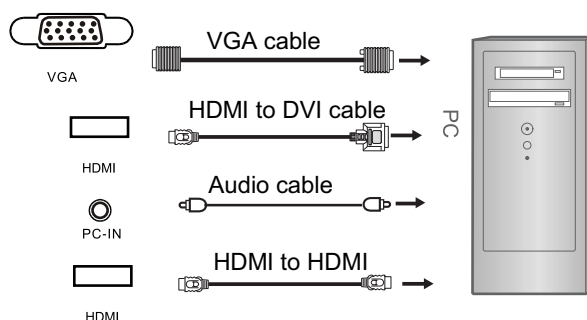
Use a PC-VGA cable (not supplied) to connect the TV to your PC. You can also use an HDMI cable to connect to your PC (if your PC Graphic card supports HDMI). When the HDMI cable is used, the PC audio cable is no longer required. If you use the HDMI to DVI cable, you will need to use the PC audio cable. Connect all cables carefully and do not bend or break the connector pins.

When using the VGA cable

- Switch on the TV
- Switch on the PC
- Select PC/VGA as input source

When using the HDMI cable

- Select HDMI as input source



(All illustrated cables are not supplied)

Connecting external devices (continued)

Connecting Video camera and Video recorder

Video camera

- Connect the AV cable to the TV and to the video camera.
- Turn on both video camera and the TV.
- Select AV/CVBS source
- You can now see the playback picture from the video camera.

Note:

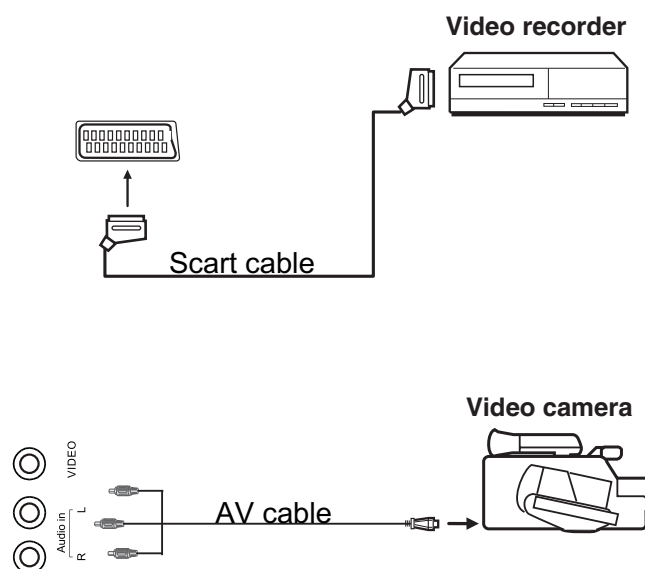
- To connect the video camera using other cables, refer to the video camera instruction manual.

Video recorder

- Connect the Scart cable to the TV and video recorder.
- Turn on both video recorder and the TV.
- Select Scart source
- You can now see the playback picture from the video recorder.

Note:

- To connect the video recorder using other cables, refer to the video recorder instruction manual.

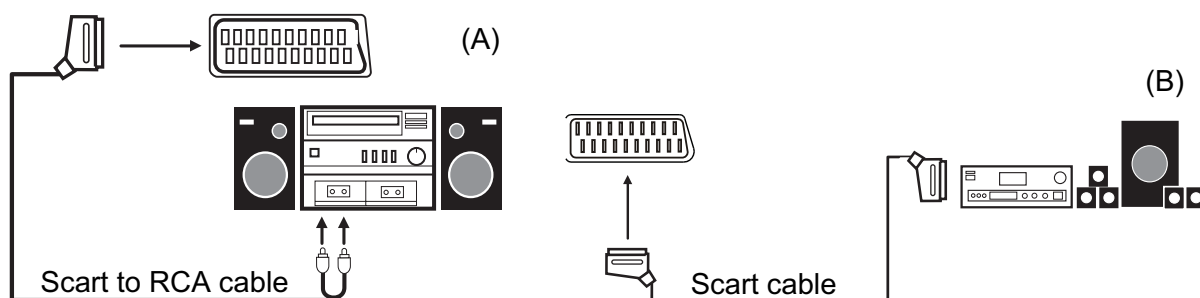


(All illustrated cables are not supplied)

Connecting external devices (continued)

Connecting an audio system(Available in ATV, DTV and AV mode only)

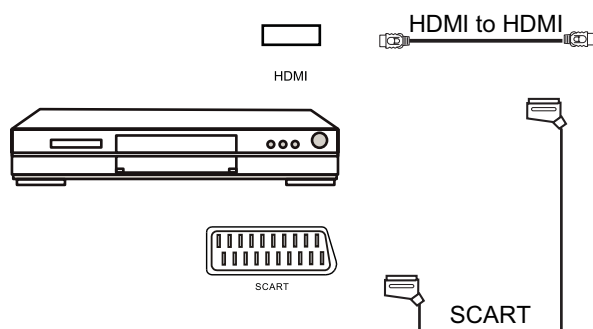
You can supply the TV sound to the stereo system (A) with the Scart socket. Use a special scart cable SCART to RCA for ATV,DTV and AV mode. (Please consult your hi-fi instructions for details). If you have a surround sound amplifier/decoder (B) Use the Scart cable or the special scart cable Scart to RCA.



(All illustrated cables are not supplied)

Connecting a DVD player

Connect a DVD player using either a SCART cable or the HDMI cable.
(only if your external equipment supports HDMI).



(All illustrated cables are not supplied)

When using the SCART cable

- Switch on the TV
- Switch on the DVD player
- Select SCART as input source

When using the HDMI cable

- Select HDMI as input source

Auto installation setup

Power On / Off the TV

1. Connect to the power supply with a power cord and an adaptor.
2. -To turn on the TV
Press **POWER** button on the TV or remote control.
-To turn off the TV
Press **POWER** button on the TV or remote control.

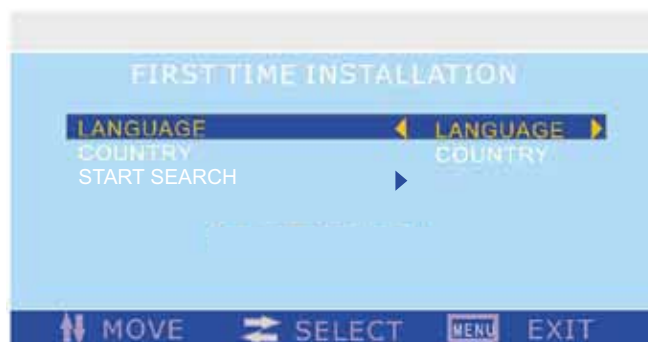
When you initially turn on the TV you will see the first time installation menu as below:

Ensure that the aerial is plugged in to the TV, Make sure your Remote is in TV mode (by pressing INPUT button), switch on the TV by pressing POWER. You will see the first time installation menu.

You can select "Country" and "Language" (OSD display language), and select the contents of the Auto Search (Analog Program or Digital Program) according to the hints at the bottom.

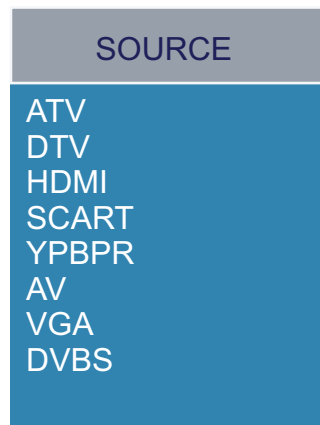
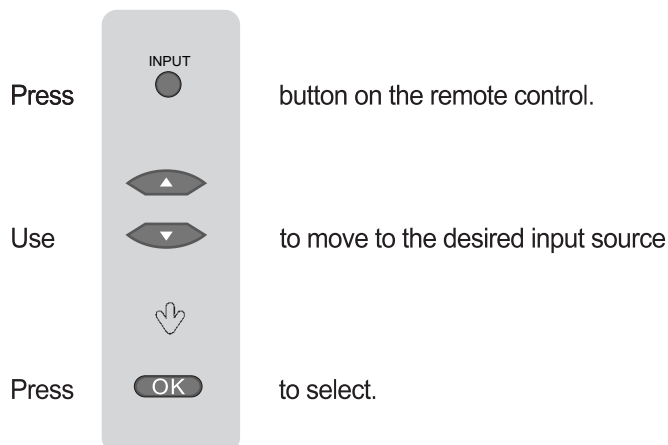
When you finished, press ▲/▼ button to select "OK", and press **OK** button to start auto search.

The TV will start searching from the lowest frequency (you can press **MENU** to cancel the auto search.). When it finds a station, it will automatically store this in the first location and move to the next. When Autosearch is complete, the TV will display the first station found. If you want to change the order of the programs, you can use the "Program Edit" function to change.



Source Menu

You can select the input source menu by pressing the Source button on the remote control or the INPUT button on the TV.



Source Menu

1. Turn the TV on.
2. Press the MENU button on the Remote Control.
3. Use the ◀ and ▶ buttons to navigate through the menu.
4. Press the EXIT button to exit the Menu.

CHANNEL MENU

Allows you to search channels and set up a variety of channel options.



PICTURE MENU:

Allows you to make adjustments to your picture settings.



SOUND MENU:

Allows you to customize the sound options and effects.



SETTING MENU:

Allows you to setup a variety of setup options.



FUNCTION MENU:

Allows you to set up a variety of lock/time and setup options.



Note: Use the left right up down navigation buttons to select the required options in the menus.

Menu Settings (continued)



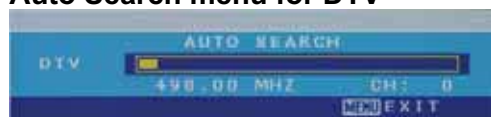
Use the ◀ and ▶ buttons to select the **CHANNEL** menu (as the picture above), press ▼ button to enter the menu.

The CHANNEL menu includes the following options :

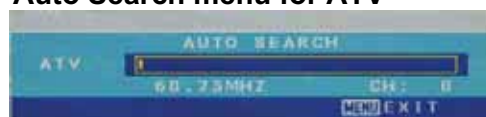
Country	Press ◀ and ▶ buttons to select the Country. (Can be selected in ATV mode)
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Auto Search	Press ▶ button to start auto search.
-------------	--------------------------------------

Auto Search menu for DTV

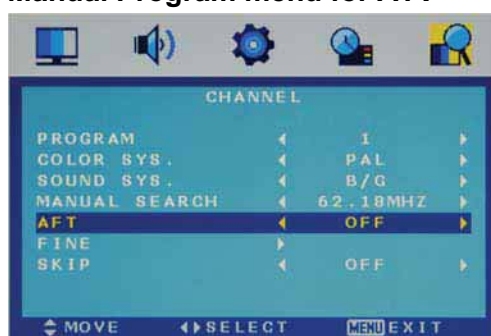


Auto Search menu for ATV



Manual Program	Press ▶ button to enter the submenu.
----------------	--------------------------------------

Manual Program menu for ATV



Program	Select the program you want to edit.
Color Sys.	Select the color system for the program you want to edit.
Sound Sys.	Select the sound system for the program you want to edit.
Manual Search	Use ◀ and ▶ button to manual search.
AFT	Turn on/off the Auto Frequency Tuning function for Manual Search.
Fine	Use ◀ and ▶ button to fine-tune.
Skip	Select "Yes" to skip the program when you scan the programs by CH+/-.

Menu Settings (continued)

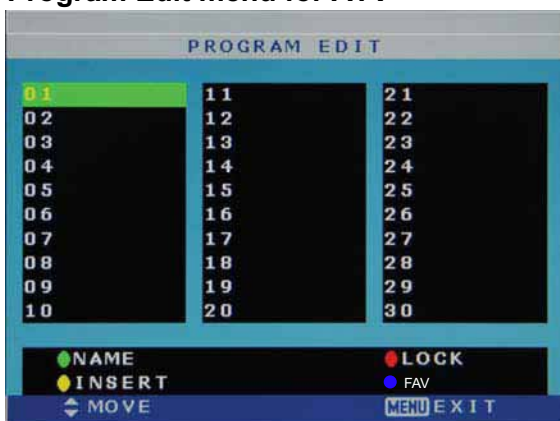
Manual Program menu for DTV



Program	Select the program you want to edit.
Start Search	Press ► button to start search.
Channel Found	Display the channel it found.
SIG. Quality	Display the singal quality of the channel it found.
SIG. Strength	Display the singal strength of the channel it found.
Frequency	Display the frequency of the channel it found.

Program Edit: Press ► button to enter the submenu as the following picture.

Program Edit menu for ATV



NAME: Select the channel, press GREEN button on the remote control to change the name of the channel.

(Use ◀ ▶ ▴ ▾ button to name, and press OK button to confirm)

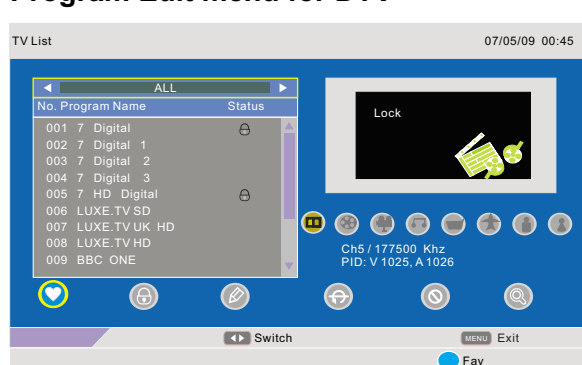
LOCK: Select the channel, press RED button to lock the channel. You have to enter the code to view the channel you have locked.

Note: you could set the code in System Lock menu in FUNCTION menu, the original code is 0000.

INSERT: Select a channel you want to insert, press YELLOW button, then select the position, press GREEN button to insert, or you could press RED button to cancel the option.

FAV: Press blue button to add the channel FAV list.

Program Edit menu for DTV



FAV:

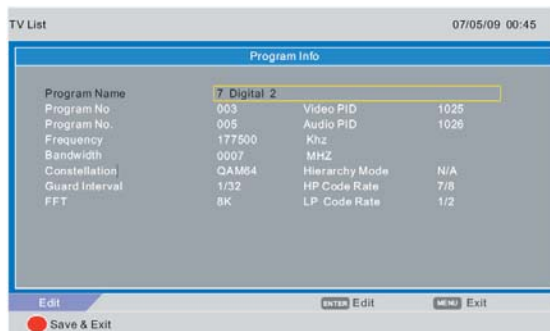
- Use the ▲ ▼ button to select channel.
- Use 1-8 number buttons to set the current channel to your favorite group 1-8. if the current channel already be one of your favorite gruop 1-8, use 【1-8】 number buttons again will set it to a normal channel.
- Use Yellow button on the remote, the menu will appear: save the change?

LOCK:

- Use the ◀ ▶ button to switch between all channel and fav 1-8 channel.
- Use the 【Ok】 button to set the current channel to lock. if the current channel already lock, use it again will unlock.

EDIT:

- Use the ◀ ▶ button to switch between all options and use 【Ok】 button to select.
- Use the ▲ ▼ button to select channel, then use 【Ok】 button to enter the program info menu.



·Use the ▲ ▼ button to select channel, then use 【OK】 button to rename the program.



There are two options:

- Use the 【1-9】 number buttons to select different character.
- Use the Green button to Switch between upper and lower case letters. Circularly press the number buttons 2 to select between a, b, c and 2 and use 【OK】 button to save.

SKIP:

- Use the cursor buttons to select the channel you want to Skip. Use 【OK】 button and  will be shown at the channel selected. To remove the skip function by using 【OK】 button again. When a channel has been selected to Skip, you still may select that channel with the numeric buttons.

DELETE:

- Use the cursor buttons to select the channel you wish to delete. Use 【OK】 button and  will be shown at the channel selected. To remove the delete function, use 【OK】 button.

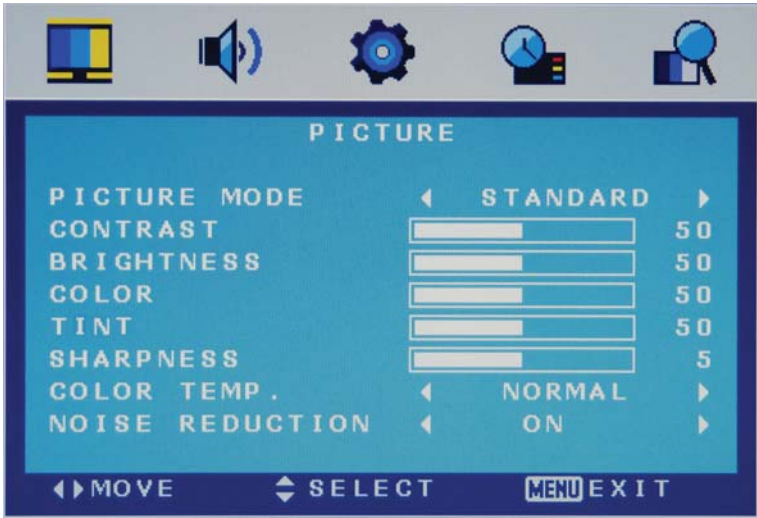
SEARCH:

- Use 【OK】 button to enter the search menu.
- Use the number buttons to select the corresponding characters.

CI MENU(in DTV mode)

Please contact your “pay per view” provider who can supply a viewing card and cam unit with instructions for their use.

Menu Settings (continued)

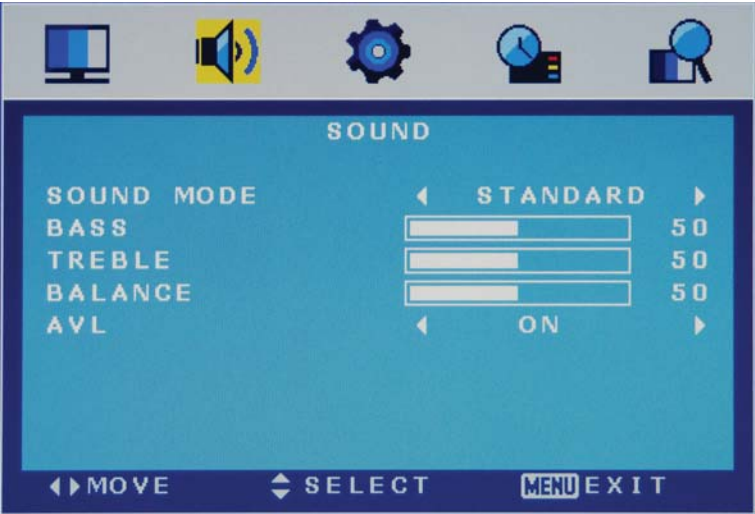


Use the ◀ and ▶ buttons to select the **PICTURE** menu (as the picture above), press ▼ button to enter the menu.

The PICTURE menu includes the following options :

Picture Mode	Choose from Standard, Movie, Vivid and Personal.
Note: Contrast, Brightness, Color and Sharpness can only be adjusted in the Personal mode option in the Picture Mode Settings.	
Contrast	Controls the difference between the brightest and darkest regions of the picture.
Brightness	Controls the overall brightness of the picture
Color	Control the color.
Sharpness	Increase this setting to see crisp edges in the picture; decrease it for soft edges .
Tint	Controls the tint (NTSC mode only).
Colour Temp.	Choose from Normal, Cool, and Warm.
Noise Reduction	Reduce any interference noise by selecting “ON”. (Can be selected in ATV mode).

Menu Settings (continued)

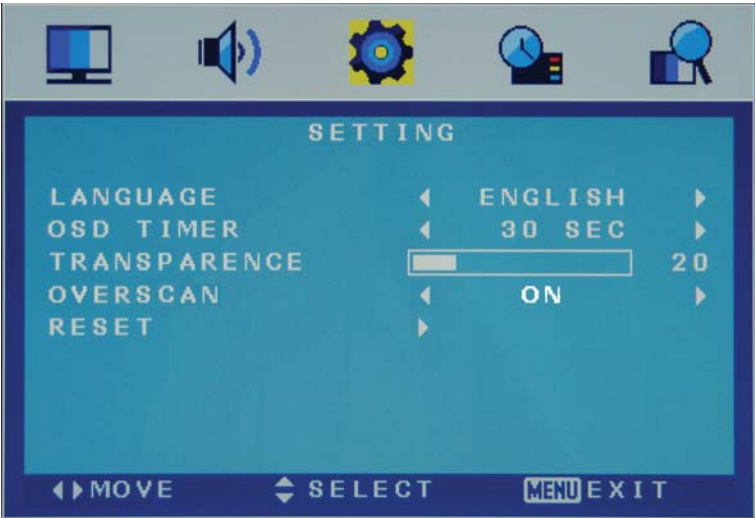


Use the ◀ and ▶ buttons to select the **SOUND** menu (as the picture above), press ▼ button to enter the menu.

The SOUND menu includes the following options :

Sound Mode	Allows you to select among: Standard, Music, Movie and Personal.
Bass (Can be adjusted when the sound mode is set to User)	Controls the relative intensity of lower pitched sounds.
Treble (Can be adjusted when the sound mode is set to User)	Controls the relative intensity of higher pitched sounds.
Balance	To adjust the balance of the left and right sound track, or turn off the volume of the left and right sound track.
AVL	Control the volume of the program automatically when you turn on the function by selecting "On".

Menu Settings (continued)

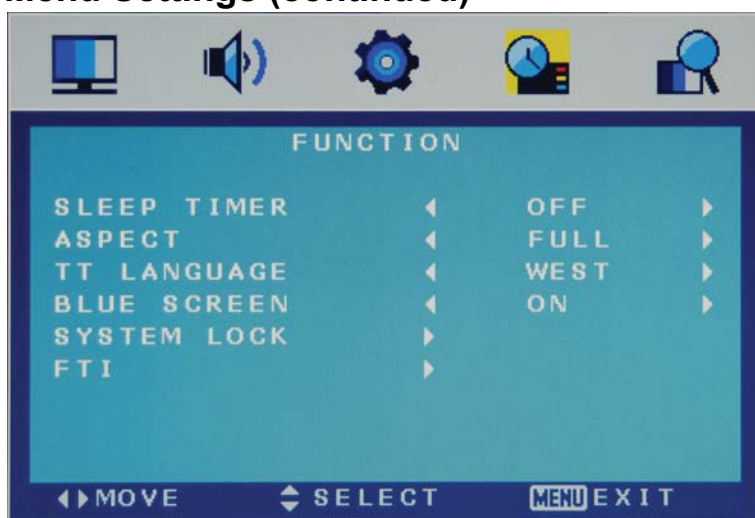


Use the ◀ and ▶ buttons to select the **SETTING** menu (as the picture above), press ▼ button to enter the menu.

The SETTING menu includes the following options:

Language	Allows you to select menu language.
OSD Timer	Allows you to select the time for OSD menu displays on the screen.
Transparence	Allows you to select the transparence for OSD menu displays on the screen.
Overscan	Turn on/off the overscan funciton. (Can be selected in HDMI mode)
Reset	Press ▶ button to restore factory default.

Menu Settings (continued)



Use the ◀ and ▶ buttons to select the **FUNCTION** menu (as the picture above), press ▼ button to enter the menu.

The FUNCTION menu includes the following options :

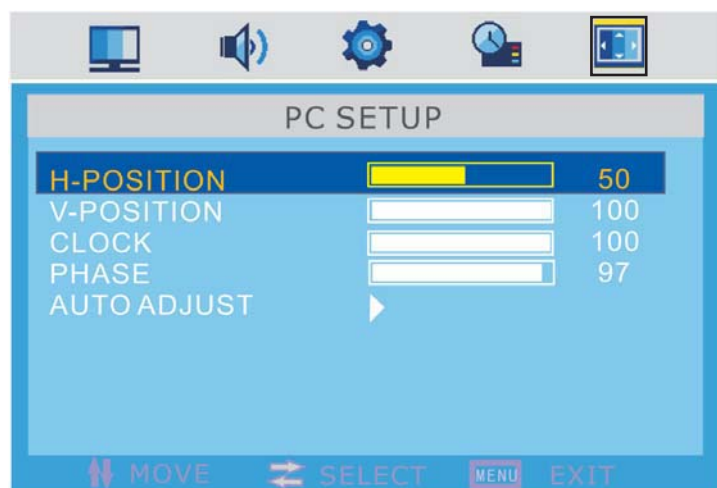
Sleep Timer	Allows you to setup the sleep timer to : 15min, 30min, 45min, 60min, 75min, 90min, 105min, 120min and off.
Aspect	Allows you to select the screen display mode. (Can be selected in DTV mode)
TT Language	Allows you to select the Teletext language. (Can be selected in ATV mode)
Blue Screen	Turn on the blue screen display in no signal state by selecting "ON" (Can be selected in ATV mode)
System Lock	Press ▶ button, and enter the code to enter the submenu. The original code is 0000.



System Lock	Turn on/off the system lock function.
Child Lock	Lock the channel, you have to enter the code to view the channel.
Key Lock	Lock the buttons on the TV set, you could not operate the TV by the buttons on the TV set.
Parental	Select the parental control mode.
Change Code	Change the code.

FTI (First Time Installation)	Press ▶ button to enter the First Time Installation menu.
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Menu Settings (continued)



Use the ◀ and ▶ buttons to select the **PC SETUP** menu (as the picture above), press ▼ button to enter the menu.

The PC SETUP menu includes the following options :

H-Position	Adjust the transverse position of the screen.
V-Position	Adjust the vertical position of the screen.
Clock	Adjust the pixel clock frequency, until the image size is maximized for the screen.
Phase	Adjust the phase of the ADC sampling clock relative to the sync signal, until a stable image is obtained.
Auto Adjust	Press ▶ button to setup the parameter of the screen automatically.

Multimedia operation

Note: Before multimedia operation, plug in USB device, and select the DTV source. Basic operation

Press the USB button on the remote control to display the MULTIMEDIA menu as below:



Press ▲ / ▼ button to select the menu you require, and press OK button to enter, or you could press EXIT button to exit the menu.



Hint — you should operate the OSD menu according to the hint.

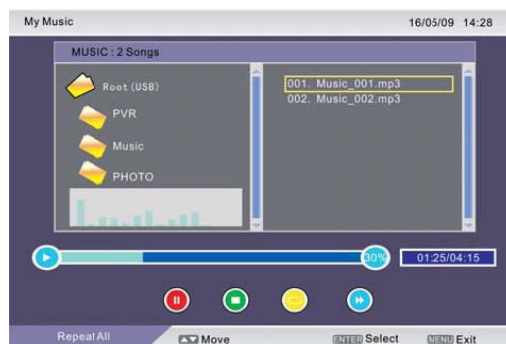
Note: Before using the Multimedia menu, plug in the USB device to either the DTV USB slot or the DVBS slot and select either DTV (TV button) or DVBS (Sat button) depending on the slot. See also page 10.

1. My Music menu

Select the music file



Play the music

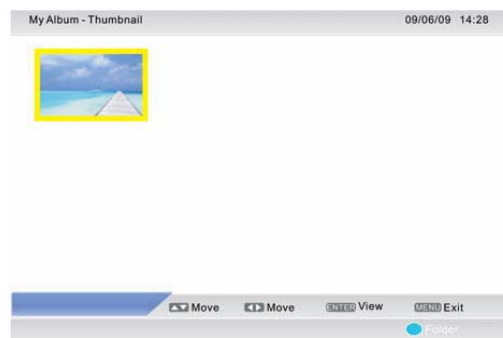


Press ◀ / ▶ button to select the right/left table to operating, and press ▲ / ▼ button to select the file you require, then press OK button to unfold the file or play the file.

- ▶: Press the RED button on the remote control to start the music, press again to pause.
- ◀: Press the GREEN button on the remote control to stop and back to the beginning of the music.
- ◀: Press the YELLOW button on the remote control to circularly play the music.
- ▶: Press the BLUE button on the remote control to play fast forward.

2. My Album menu

Select the photo



Use ▲ / ▼ / ◀ / ▶ button to select the photo you want to view, press OK button to view the picture, or press MENU button to the MULTIMEDIA menu. (See the above picture.)

Select other photos



If there is not the photos you want to view, you have to press BLUE button to display the files, and you could select the photos as your require, or press MENU button to previous menu. (See the above picture.)

Picture View

Select the photo, and press OK button to view as the picture below:



Press ▲ / ▼ button to view the previous/next photo.

- ▶: Press the RED button on the remote control to zoom photo on the screen, when the photo is larger than full-screen, press ▲ / ▼ / ◀ / ▶ button to move.
- ▶: Press the GREEN button on the remote control to display the music files, and you could add music when you view the photos.
- ▶: Press the YELLOW button on the remote control to flip the photo horizontally.
- ▶: Press the BLUE button on the remote control to flip the photo vertically.

3. My Movie menu

Select the movie file



Play the movie



Press ◀ / ▶ button to select the right/left table to operating, and press ▲ / ▼ button to select the file you require, then press OK button to unfold the file or play the file.

- ▶: Press the RED button on the remote control to pause the movie playing, press again to continue.
- ▶: Press the GREEN button on the remote control to one-step-play, press BLUE button next, you can set slow-forward speed to see the movie.
- ▶: Press the YELLOW button on the remote control to play fast-forward.
- ▶: Press the BLUE button on the remote control to play fast-backward.

4. My Record menu (DVB-T mode)

Press ▲ / ▼ button to select the item, and press OK button to enter the submenu, or press MENU button to MULTIMEDIA menu.



Recorded List

Press ▲ / ▼ button to select the record you want to view, and press OK button to play in the small window, and press again to play in full-screen. Press MENU button to stop and back to the Recorded List.



Note 1: You should use ◀ / ▶ button to turn pages in the list.

Note 2: You may get a note as the right picture before the list displays.

Press RED button on the remote control to delete the record you select, and it will display a note as the right picture, press OK button to confirm or press MENU button to cancel.

Note: When you start viewing the record, you will get a note as the right picture if you have saw part of this record. Press OK button to confirm and start from last viewed, or press MENU button to cancel and start from the beginning.

When you are playing the record, you could press ►► button on the remote control to play fast-forward, it will stop and back to Recorded List at the end;

Press ◀◀ button on the remote control to play fast-back-forward, it will stop and play normally on the beginning;

Press ►|| button on the remote control to pause, press again to continue play normally;

Press ■ button on the remote control to stop and back to Record List;

Press ◀◀ / ►► button on the remote control to fast-forward/fast-backward by 10%.

Recording Device



Press ▲ / ▼ button to select the item, and press ◀ / ▶ button to select, and press OK button to confirm and back to previous menu, or press MENU to cancel the setting and back to previous menu.

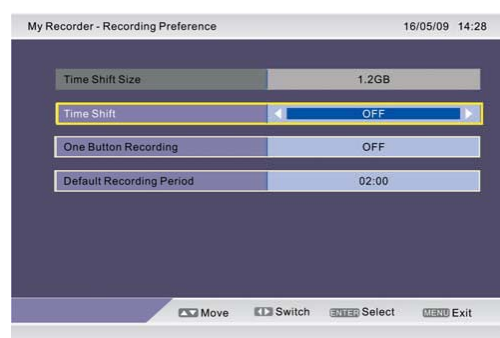
Press the RED button on the remote control to format the device you selected, and it will display a note as the right picture, press OK button to confirm or press MENU button to cancel.



Press the GREEN button on the remote control to format the whole disc you selected, and it will display a note as the right picture, press OK button to confirm or press MENU button to cancel.



Recording Preference



Press ▲ / ▼ button to select the item, and press ◀ / ▶ button to select, and press OK button to confirm and back to previous menu, or press MENU to cancel the setting and back to previous menu.

Time Shift Size: Display the time shift size of USB device.

Time Shift: Select the Time Shift mode—OFF, Pause, AUTO. When you select Pause or AUTO, you could see the Time Shift as follow.

The time of the current program later than the live signal.



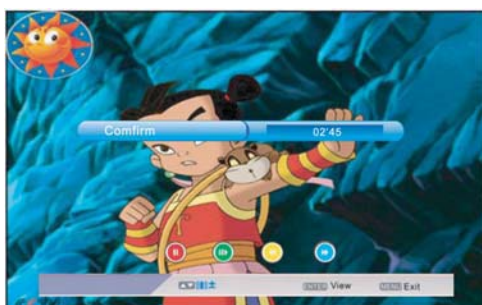
The time of the current program being traced back to.

One Button Recording: Turn ON/OFF the note before recording.

One Button Recording Period: Set the recording period. For example, when you set the time 02'45, recording should stop after 2 hours and 45 minutes.

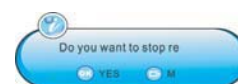
RECORD Operation

Press REC button on the remote control to start recording, if you have select ON in One Button Recording, you will be noted to set Recording Period first, or you can set it after recording. Press ◀/▶ button to set the time, press OK button to confirm, press MENU button to exit.



- Press ■ button on the remote control to stop recording, you will be noted as follow. While the program is fast-forward or fast-backward, press this button to back to the live program.

Press OK button to stop recording, press MENU button to continue.



During recording enter the Time Shift mode, screen displays as follow.

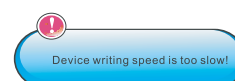


During recording, screen displays in full-screen, and the Recording Time will be display on the screen.

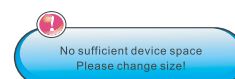


- Press ►|| button on the remote control to pause, press again to continue normal play;
- Press ◀◀ button on the remote control to reverse, it will stop to the beginning of the recorded section;
- Press ►► button on the remote control to play fast-forward, it will stop at the end of the recorded section and you will see the live TV signal;

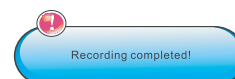
Note 1: You may get a note sometimes as follow, and it will disappear automatically at once.



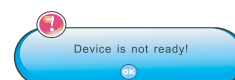
Note 2: Recording stop automatically when the device has no space, you may get a note as follow.



Note 3: When recording time's up, a note will display on the screen as follow, press OK button to confirm.



Note 4: When you draw the devices out, a note will display on the screen as follow, Press OK button to confirm.



DVBS Operation

1 Main Menu

All the important settings and features of your receiver can be operated in *Main Menu*. The Main Menu consists of four sub-menus which are "*Installation*", "*System setting*", "*Channel Organizer*" and "*Multimedia*".

Press the MENU key when the menu is off, The *MAIN MENU* screen will appear

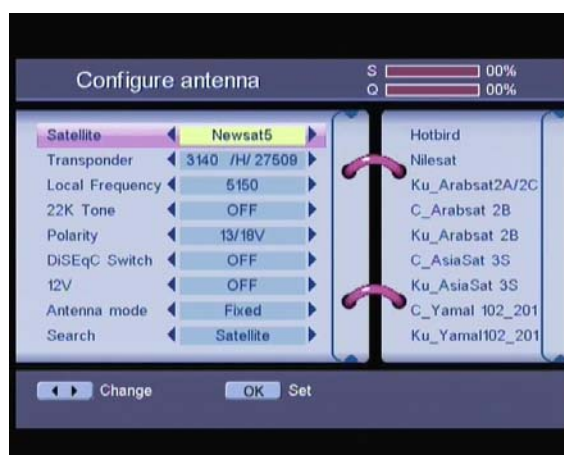


1.1 Installation

The installation menu contains three sub-menus; "*Dish Setup*", "*Auto Scan*" and "*Transponder Manager*".

1.1.1 Dish Setup

You can select satellite, set the parameter of satellite parameter and enter to install satellite submenu in this menu.



1.1.1.1 Satellite

Move the cursor to the satellite you want to install.

Press OK to select the satellite you want to install.

Note: You must press OK to save changed data when the cursor is on the Satellite item before you select another satellite.



1.1.1.2 Transponder

You can select the current Transponder or add the new Transponder.

1.1.1.3 Local Frequency

You can change the local frequency.

Note: You must press OK to save this local frequency when the cursor is on the Local Frequency item before you select another satellite.

1.1.1.4 22K Tone

You can change the 22k tone. Press LEFT/RIGHT select *ON*, *OFF* or *AUTO*.

Note: You must press OK to save this 22K tone when the cursor is on the *22K Tone* item before you select another satellite.

1.1.1.5 Polarity

You can change the polarity. Press LEFT/RIGHT select *13V*, *18V*, *13/18V* or *OFF*.

Note: You must press OK to save this polarity when the cursor is on the *Polarity* item before you select another satellite.

1.1.1.6 DiSEqC Switch

You can change DiSEqC Switch. Press LEFT/RIGHT select *LNB1*, *LNB2*, *LNB3*, *LNB4* or *OFF*.

Note: You must press OK to save this DiSEqC Switch when the cursor is on the *DiSEqC Switch* item before you select another satellite.

1.1.1.7 12V

You can change the Antenna mode. Press LEFT/RIGHT select *Fixed*, *USALS* or *DiSEqC1.2*.

When you select *USALS*

1.1.1.8 Antenna mode

You can change the Antenna mode. Press LEFT/RIGHT select *Fixed*, *Goto x* or *DiSEqC1.2*.

When you select *Goto x*:

Press OK to enter the submenu of the *Adjust Antenna*.

Press UP/DOWN to move the curser to the item of the *Transponder*.

Press LEFT/RIGHT to select the current transponder.

Press UP/DOWN to move the curser to the item of the *Satellite Longitude*.

Input the data of the Satellite Longitude and press LEFT/RIGHT select *East* or *West*.

Press UP/DOWN to move the curser to the item of the *My Longitude*.

Input the date of the My Longitude and press LEFT/RIGHT select *East* or *West*.

Press UP/DOWN to move the curser to the item of the *My Latitude*.

Input the date of the My Latitude and press LEFT/RIGHT select *South* or *North*.

Press UP/DOWN to move the curser to the item of the *Goto Position*.

Press OK to move the Antenna to the position you want.

Move the curser to *Back* or *Next* button and press OK to exit the submenu to the last menu.

When you select DiSEqC1.2:

Press OK to enter the submenu of the *Adjust Antenna*.

Press UP/DOWN to move the curser to the item of the *Transponder*.

Press LEFT/RIGHT to select the current transponder.

Press UP/DOWN to move the curser to the item of the *Move Dish*.

Press LEFT/RIGHT to move dish.

Press UP/DOWN to move the curser to the item of the *Goto Ref.*

Press OK to go to 0.

Press UP/DOWN to move the curser to the item of the *Store position*.

Press LEFT/RIGHT to select the number of the store position.

Press OK to save.

Move the curser to *Back* or *Next* button and press OK to exit the submenu to the last menu.

1.1.1.9 Search

You can change *Search* mode.

Press LEFT/RIGHT select *Satellite*, *Transponder*, *Blind Scan*, *NIT Searching*.

When you select Satellite, press OK to enter the progress of the satellite search mode.

When you select Transponder, press OK to enter the progress of the Transponder search.

When you select Blind Scan, press OK to enter the progress of the Blind Scan.

When you select NIT Searching, press OK to enter the progress of the NIT Searching.

1.1.2 Auto Scan

Press UP/DOWN key to move the cursor to the satellite you want to select, and press OK to mark or unmark.

Press the RED button to scan all channel of the marked satellite.

Press the GREEN button to Blind Scan the marked satellite.

Press the YELLOW button to scan free channel of the marked satellite.



1.1.3 Transponder Manager

In this menu, you can add, edit, and delete the transponder. you can search transponder.

1.1.3.1 Satellite

You can select the satellite.

1.1.3.2 Frequency

You can select the frequency.

Press RED button to enter *Add Transponder* submenu, you can add the new transponder.

Press GREEN button to enter *Edit Transponder* submenu, you can edit the transponder.

Press YELLOW button to enter *Edit Transponder* submenu, you can edit the transponder.



1.1.3.3 Polarity

You can select the *polarity*.

1.1.3.4 NIT Searching

You can select the NIT *Searching*.

1.1.3.5 Free

You can select the *free mode*.

1.2 System setting

In this menu, you can configure the systems such as *language Setting, OSD style, Parental Control, TV Settings, Time Setting* and *System Update*.

1.2.1 Preference

You can set the *OSD language, the Audio language, TV mode, Video output, Screen mode, set factory default, Modulator settings* and *Time setting*.

1.2.1.1 OSD Language

Press LEFT/RIGHT to select the *OSD language*.

1.2.1.2 Audio Lang

Press LEFT/RIGHT to select the *Audio language*

1.2.1.3 TV Mode

Press LEFT/RIGHT to select *PAL or NTSC*.

If you don't know which standard your TV has, please select *AUTO*.

1.2.1.4 Video Output

Press LEFT/RIGHT to select the *CVBS or RGB*.

1.2.1.5 Screeb Mode

Press LEFT/RIGHT to select the 4:3 or 16:9.

1.2.1.6 Set Factory Default

Press LEFT/RIGHT to select the ALL or Scramble.

Press the OK key, enter the code, the receiver will return to its factory default state, and the date will be deleted.

NOTE: Your PIN code will change back to the factory setting "0000"

1.2.1.7 Modulator Option

Press OK to display sub menu,

press LEFT/RIGHT to select the RF audio mode and RF channel.



1.2.1.8 Time Setting

Press OK go to *Time Setting* below:

If a broadcaster provides *GMT*, you can set the time using *GMT*, or set your own time by yourself. If the *GMT* usage is *ON* then the Current time is set automatically or you can set the time zone. If your broadcaster provides the correct time offset then your receiver will change from summertime to wintertime automatically. If you set *GMT* Usage to *OFF*, Set Data and Set Time item are displayed.

To set the time value manually, move the cursor to the time item and use the numeric buttons on the remote control.

1.2.2 Parental Control

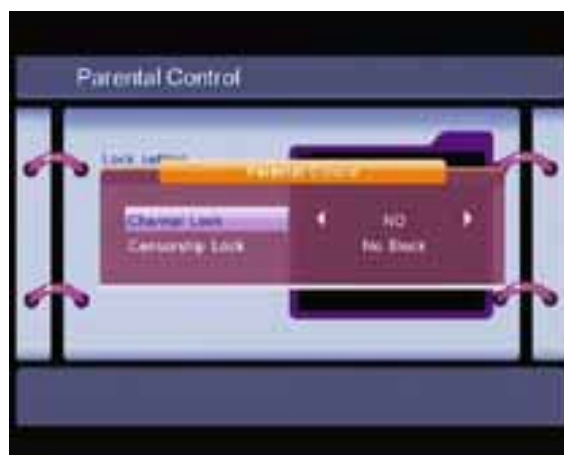
Parental setting and can change the PIN code

The default PIN code is 0000.

● Lock Setting

Channel Lock: Set the system channel lock to *NO* or *YES*. If the channel lock is *YES*, the user has to enter the parental PIN code correctly before watching the locked channel.

Censorship lock: set the censorship class.



● Parental Setting

Press YELLOW key to set some channels to lock status. If a channel is locked, the user has to enter the parental PIN code correctly before watching the locked channel.



- Change PIN

Modifying the PIN. You must enter the 4 digits PIN and confirm it again; the system PIN will be changed into the new PIN as show on.



1.2.3 System Update

In this menu, you can select , “*Update by DEV*”

- Update by DEV

You can update your STB software by USB. Select “System Update – Update by DEV”, you can select update software from USB disk, and press OK key to update your STB .

***NOTE:INCORRECT OPERATION MAY CAUSE UNREPAIRABLE DAMAGE TO THE RECEIVER.**

1.DO NOT POWER OFF THE RECEIVER DURING THE PROCESS OF DOWNLOAD.

2.DO NOT PLUG IN OR UNPLUG THE RS232 INTERFACE WHEN RECEIVER IS POWERED ON.



1.2.4 System info

The system information displays information about your receiver such as software hardware and date.

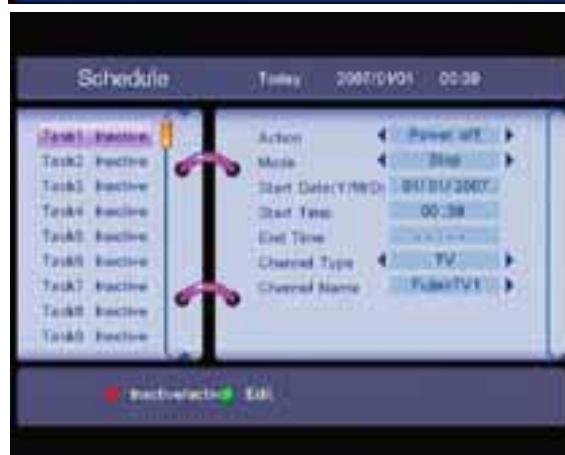


1.2.5 Timer

You can set the timer to make the receiver perform designated actions including timer based wake up or sleep instructions to the TV.

Use the UP/DOWN buttons to select timer. Press the LEFT/RIGHT key to activate/inactivate current timer. Press the ok button to enter your select timer settings.

Acrion: You can select the follow function:
"Power on": The receiver powers on at the designated date and time



"Time interval": The receiver switches on at the designated date and time, displays the channel and then switches off at the designated date and time (The value set at the end time).

"Record": The receiver will records program at the designated date and time

"Power Off": The receiver powers off at the designated date and time.

Cycle: You can set the cycle of the action designated in the timer mode (one time, Daily or Weekly).

Start Date: You can set the start date of the timer action.

Start Time: You can set the start time of the timer action.

End Time: You can set the end time of the channel viewing when the Timer mode is on Time Interval.

Channel Type: Select between TV and Radio.

Channel name: Press the RIGHT button to display the channel list and using the navigation buttons select the channel to be shown when the receiver will power on by the timer.

1.3 Channel Organizer

In the *MAIN MENU* screen, press UP/DOWN to move the cursor to *Channel Organiser*, and then press OK to enter the *Channel Organizer* menu.

The *Channel Organizer* menu consists of three sub-menus; "*Channel Manager*", "*Favorites Manager*", "*Remove Satellite*".



1.3.1 Channel Manager

In this menu, you can change the order of the channels, delete and edit channels.

To change the satellite use the RED button, and press Left/Right button.



Sort (GREEN button)

You can sort the channel order in the channel list by "A-Z", "Z-A", "Free-Pay", "FAV" or "Default" type.



Edit (YELLOW button)

Select the channel that you wish to edit, press the YELLOW (Edit) button to move into the *modify program* menu. In this menu, you can modify the *Program Name*, *Frequency*, *Symbol rate*, *Video PID*, *Audio PID*.



If you want to rename the channel, use the UP/DOWN keys to select "*program Name*" and press OK, the program name dialog will shown as below.

Use the UP/DOWN or LEFT/RIGHT button to move the cursor to the character you want character, and press the OK button to select.

When editing is complete, move the cursor to "OK", and press the OK button.



Delete all

Press the BLUE key and input the password, you can delete all channels.



1.3.2 Favorites Manager

Press the UP/DOWN keys to select the channel.

Press the LEFT/RIGHT keys to select the favorite group. Press the OK button to add the selected channel to the Favorite group. To remove the channel from the favorite group, repeat same operation.

Press RED key, you can sort the channels by different satellites.

Press GREEN key, you can edit the favorite group name.



1.3.3 Remove Satellite

Press the UP/DOWN keys to select the satellite

Press the OK button to remove the satellite from the database.



1.4 Multimedia

In this menu, you can view "My Album", play "My Music", "My Movie", play "Gomoku" game and view "Calendar" from a USB key inserted into the USB slot.



1.4.1 My Album

Select “My Album”, press the OK key, then press BLUE key. Use the ▲▼◀▶ keys to select a picture by thumbprint. To change *Folder* press the Blue key.

1. Press the OK key to play selected picture full screen. Files can also be selected by number keys and pressing the OK key. Colour keys provide a range of additional options. Red : *zoom*, Green: *mp3 play*, Yellow: *flip horizontal*. and Blue: *flip vertical*.

2. Press OK again and all pictures in the folder selected will play once, with automatic effects.

3. Whilst playing, press any RCU key to view colour key options. Red: *Play / Stop*, Green: *mp3 play*, Yellow: *Repeat / Once* and Blue: *Fast / Medium / Slow*.



1.4.2 My Music

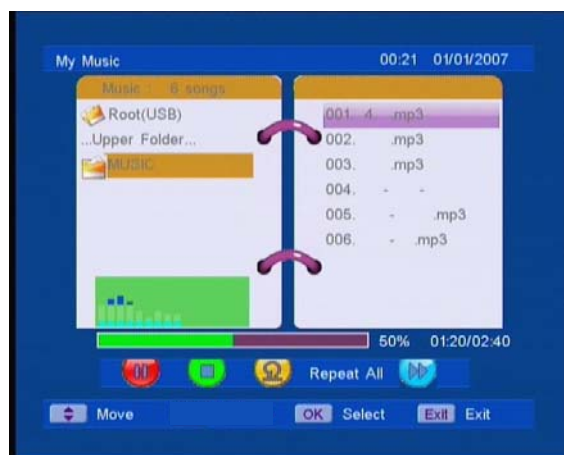
Select *My Music* and press the OK key.

Select folder through Menu structure on the left of screen. Use the the ▲▼ keys to select an mp3 file. Press the OK key to play selected file. Press the Red key to *Play / Pause*, Green to return to folder, Yellow to *Random / Repeat* play or Blue to *Fast Forward* in 3 steps.

Progress bar indicates % and Time remaining to play. Audio Spectrum Display responds to the acoustic content of the file playing.

Volume level shows dynamically when the ◀▶ keys are pressed.

Now you can save a whole party of music and play it back – simply!



1.4.3 My Movie

Select “My Movie” and press the OK key. Select folder through Menu structure on the left of screen. Use the the ▲▼ keys to select a movie file. Press the OK key to play selected file. Press ▲▼ keys to play the previous movie or next movie, press ◀▶ to change the volume.



1.4.4 My Record

This menu consists of three sub-menus; “recorded List”, “Recording Device” and “Recording Preference”.



Recorded List

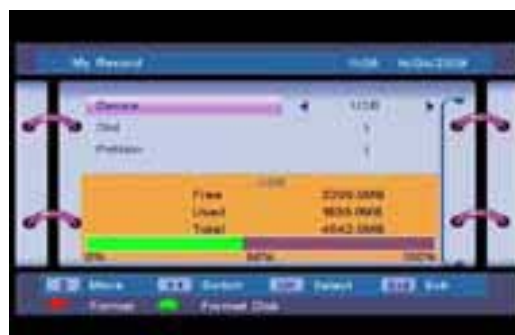
In this menu, you can view your record information and play your record.

Press ▲▼key to select the program, and press OK key to play.



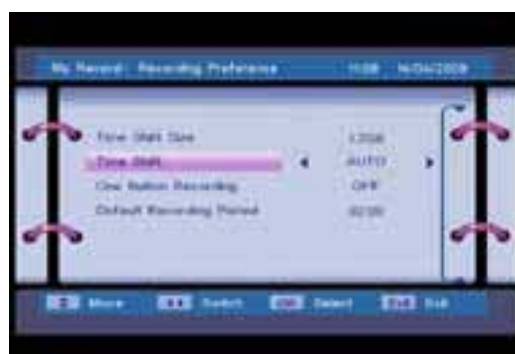
Recording Device

In this menu, you can view the recording device and format disk.



Recording Preference

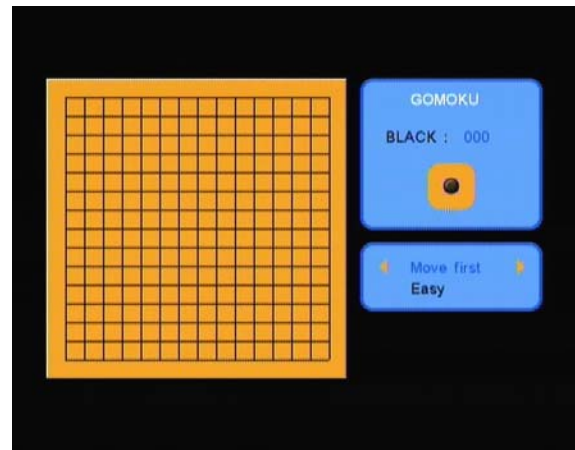
In this menu, you can set up the Recording Preference.



1.4.5 Gomoku

Line up the balls against the computer.

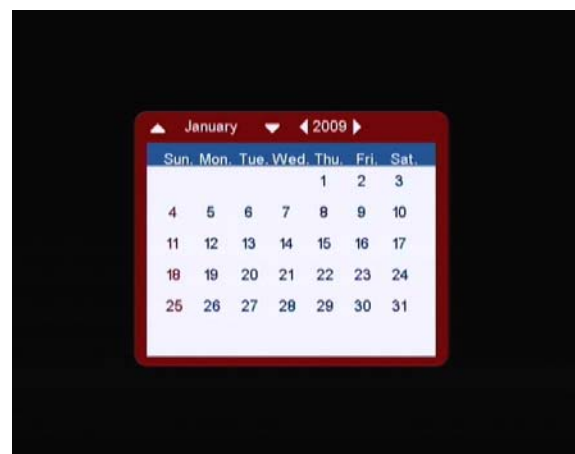
Options include Move First, Move Later, Human; Easy and Normal.



1.5 Calendar

View Calendars month by month from the year 1900 to 2100. Starts by highlighting today.

Find out what day of the week you were born.



2. Other operation functions

2.1 Program List

In normal operation status (no menu operation), press the OK button, the Program List menu will appear on screen.

Press RED button to select satellite in satellite list.

Press GREEN button to sort program by A-Z. to select easy program you want.



Press YELLOW button to sort program by Free-Pay. to select easy program you want.
Press BLUE button to go back the screen before sorted.

2.2 System Information

In normal operation status (no menu operation), press the INFO button, the Program Information menu will appear on screen. In this menu, the user can view the current program information.



2.3 EPG (Electronic Program Guide)

The EPG shows the event information on the current TP channel by time zone.

With MENU off, press the EPG button. The *EPG* Menu will appear:



Press UP / DOWN to choose the channel.

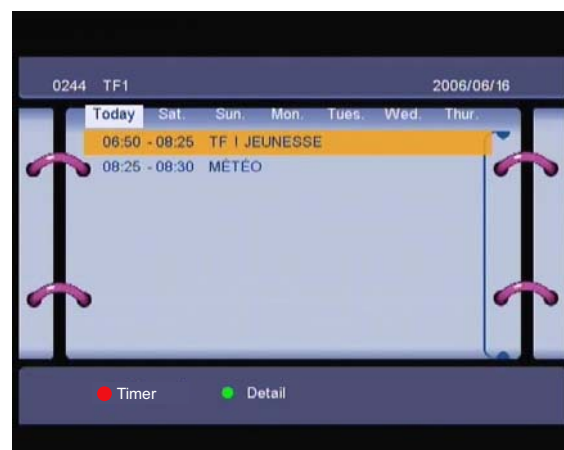
Press RED key to show the *EPG schedule* of the current channel.

In *EPG schedules* menu:

Press the UP / DOWN keys to choose the schedule items.

Press LEFT/RIGHT or P+ / P- into next / previous day's schedules.

Press GREEN KEY to show the details of this item.



You can set up the event timer by pressing RED key in the *EPG schedule* screen.

To set up an timer event:

1.Press UP/DOWN to move the cursor to the event for which you want to add a timer.

2.Press RED key to add a timer.

shows you current event timer information based on the event you have chosen. You can also use this screen to modify each value. To

save the settings, press OK. To quit event timer setup, press EXIT.

EPG pre-recorded:the setting is the same as pre-recorded setting of timer.



2.4 Selection Audio Language

Press the AUDIO button on the remote control to select the audio language as show in.

Select the *LEFT*, *RIGHT*, *MIX* or *STEREO*. Press OK to make one selection.

2.5 TELETEXT function

In no-menu state, press TEXT. Press UP / DOWN to move up or down from the displayed page number.

Press Numeric keys to input page directly. If the current program has no Teletext, you'll see the message

"Teletext no data – Press any key to exit".

2.6 Subtitles

In no-menu state, press SUB. Press LEFT/RIGHT to select between teletext and DVBS subtitles. Use UP/DOWN to select subtitles language. Confirm your selection with OK button.

3.Recording

When “One Button Recording” is on, at the normal play, you can press Rec button to record the current playing program. In recording, press Rec button, the recording setup menu will be displayed on screen, you can press ◀▶ to change the time, then press OK key to start recording.



When “One button Recording” is off, at the normal play, you can press Rec button to record the same TP program. At the normal play, press Rec button, the recording setup menu will be displayed on screen, you can press ◀▶ to change the time, then press OK key to enter the channel list, press ▲▼ keys to select another same to TP channel and press OK TO start record this channel.



Trouble Shooting

If the receiver does not work properly after checking it, please contact the dealer.
Don't open the receiver cover. This may cause a dangerous situation.

Symptom	Cause	Remedy
The display on front panel does not light up.	The power cord is not plugged in	Check that the power cord is plugged in to the wall outlet
No picture or sound	Wrong connection of the Audio/Video output of the receiver to TV	Connect the Audio/ Video output of the receiver to TV correctly
	Audio muting	Press the Mute button
	TV power off	Turn TV on
No picture	The receiver can't receiver the signal	Check the antenna cable,replace the cable, orconnect the cable to the receiver tightly
	Incorrect values of some tuner parameters	Set the values of the tuner parameters correctly in the installation menu
	Wrong direction of the dish	Check the signal strength with a sprctrum analyzer and adjust your dish correctly
The remote control does not work	The batteries of the remote controller are not inserted or exhausted	Check whether the batteries are inserted correctly in your remote control. Check the batteries, and if exhausted replace the batteries in the remote control

TECHNICAL SPECIFICATIONS

Specifications of the TV that you have just purchased may vary from the information in this table due to technical innovations.

TV Specifications

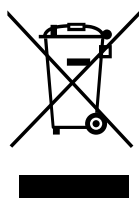
TV System	PAL / BG / DK / I;SECAM/BG/DK/L/L'
Audio System	BG / DK / I / L/L'
Screensize	22"(Diagonal)
Resolution	1920 x 1080
Aerial input	75 Ω (unbalanced)
Audio output power	2 x 3W
Power requirements	12V 3.33A
Power consumption	40W

Electric and electronic equipment and included batteries contains materials, components and substances that can be hazardous to your health and the environment, if the waste material (discarded electric and electronic equipment and batteries) is not handled correctly.

Electric and electronic equipment and batteries is marked with the crossed out trash can symbol, seen below. This symbol signifies that electric and electronic equipment and batteries should not be disposed of with other household waste, but should be disposed of separately.

As the end user it is important that you submit your used batteries to the appropriate and designated facility. In this manner you make sure that the batteries are recycled in accordance with legislature and will not harm the environment.

All cities have established collection points, where electric and electronic equipment and batteries can either be submitted free of charge at recycling stations and other collection sites, or be collected from the households. Additional information is available at the technical department of your city.



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